

# MeshMAX™ Product Series



**Proxim's MeshMAX™ product line integrates three technologies, WiMAX, Wi-Fi® Mesh and Wi-Fi, in one small unit!**

MeshMAX is a tri-radio, outdoor device offering Wi-Fi connectivity for access, Wi-Fi mesh gateway for network redundancy and a high capacity, carrier-class WiMAX link for backhaul. The convergence of these three technologies in one unit delivers end-to-end QoS for triple-play applications, a reduction in total cost of ownership and investment protection for future developments in WiMAX!

## **Experienced in WiMAX and Wi-Fi Applications**

Drawing on Proxim's expertise in WiMAX and Wi-Fi Mesh Technologies, the MeshMAX product line encapsulates the best in class features of the award-winning Tsunami WiMAX and ORiNOCO mesh product families. Proxim is uniquely positioned to offer this leading-edge product given our extensive experience in delivering Wi-Fi and WiMAX solutions.

- End to end product portfolio consisting of WLAN, Wi-Fi Mesh, WiMAX and Point-to-Point
- Tri-radio design provides one radio for WiMAX backhaul for distribution, one radio for Wi-Fi mesh link and one radio for exclusive Wi-Fi access traffic
- End-to-end QoS from access to distribution to support voice and video
  - IEEE 802.11e draft QoS support for access and enhanced QoS on mesh link
  - IEEE 802.16e QoS support for WiMAX wireless backhaul link
  - 802.1D to 802.1p priority mapping and 802.1D to IP DSCP mapping

## **Simplifies Network Architecture, Deployment and Management**

Reducing network complexity, minimizing time of deployment and increasing ease of installation, the MeshMAX accelerates the network operator's time to money.

- Less nodes to install, deploy and manage
- Single management interface reduces time for service and support
- Provides consistent deployment and user experience to Tsunami™ MP.11, Tsunami MP.16 and ORiNOCO Mesh Access Point product lines

## **Significantly Reduces Total Cost of Ownership (TCO)**

- Lowest deployment cost per square mile
- Reducing the number of nodes decreases installation and management time and minimizes associated costs
- Low power consumption and solar power options reduce operating expenses

## **Investment Protection**

WiMAX and mesh networks consisting of the Tsunami WiMAX products, ORiNOCO Mesh Access Points and MeshMAX radios enable a service provider to establish a customer base and capture a head start on securing the WiMAX mobile market.

- Current MeshMAX product features WiMAX QoS and roaming with unprecedented mobility capabilities
- MeshMAX platform enables support of all mobile WiMAX and Wi-Fi clients

# **ProximVision™**



ProximVision Network Management System is a powerful tool to plan, install, manage and secure wireless networks. From a central location, this user friendly application enables end-end management of the wireless network. It is packaged as an appliance with the software application pre-loaded to support 25, 100, 200 or 1000 nodes. For your convenience, the appliance is pre-loaded with the ProximVision application. Depending on specific requirements, one can choose the Standard version or the Advanced version.

Providing one console for your entire wireless network, it supports remote configuration & provisioning of the entire wireless infrastructure. Furthermore, it enables centralized firmware distribution and management to reduce OpEx. With a strong set of diagnostic features, ProximVision helps you to quickly identify trouble spots in your network. For intelligent network planning and monitoring, it has extensive reporting capabilities. It plays a critical role in securing your wireless network with centralized policy definition - encryption/ authentication method, passwords, SSID, open/closed network, etc.

## **Features**

- Offers a single intelligent console to monitor, analyze and configure wireless networks
- Supports automated device discovery across any infrastructure (LAN or WAN)
- Rich security features – compliance audits, centralized policy definition (encryption/ authentication method, passwords, SSID, open/closed network, etc.), automated configuration of devices to eliminate human error, regular configuration audits, etc.

- Scalable – can manage networks of up to 1000 nodes
- User-based monitoring for real time information and quick troubleshooting
- Diagnostics and alarms for fast problem resolution

### **RedMAX™ AN-100U**

#### **WiMAX Certified Base Station**

Redline's RedMAX AN-100U is the world's first WiMAX Forum Certified™ base station. Easy and cost-effective to deploy, the RedMAX AN-100U facilitates the rapid provision of new fixed and nomadic wireless broadband services by service providers, while its very low latency ensures reliable delivery of time-sensitive services, including circuit-switched voice traffic, voice-over-Internet Protocol (VoIP), video and prioritized data traffic. The AN-100U design architecture enables 'over-the-air' upgrades in the field through simplified software downloads and the ability to dynamically “on-the-fly” customize individual Quality of Service (QoS) settings, according to the service level agreement (SLA).

The RedMAX Base Station can be deployed in clusters of up to six (60 degree) sectors, supporting thousands of unique user-data flows and hundreds of simultaneous subscribers per sector. The GPS time synchronization feature ensures efficient use of available spectrum and channels, providing scalable and reliable dense cell deployment of Time Division Duplexing (TDD) base stations radios.

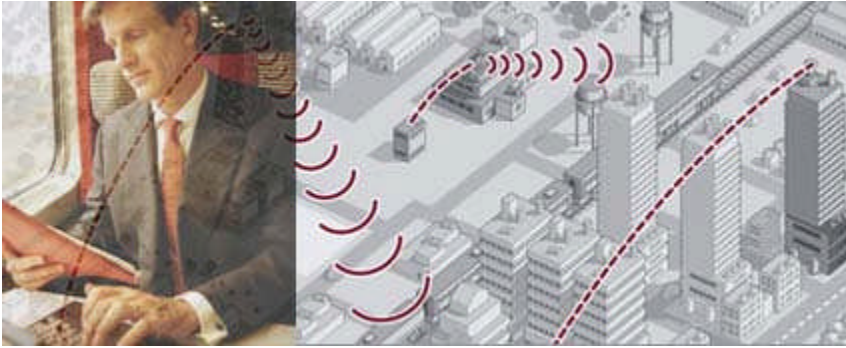
The hardware is fully upgradeable in the field by software download, to accommodate such future enhancements for scalability, extended packet classifiers, alternative encryption standards, and the continued development of the 802.16 standard. Adherence to stringent carrier-class NEBS Level 3 specifications provides high reliability for mission critical deployments. The indoor unit has a selection of radios for operation in the licensed and unlicensed bands using the 802.16-2004 specified 3.5 MHz and 7 MHz channel profiles.

### **RedMAX™ 4C**

#### **Mobile WiMAX Platform**

The RedMAX 4C is Redline's latest addition to its RedMAX family of WiMAX products, which includes the world's first complete WiMAX Forum Certified™ system.

Designed in compliance to the IEEE 802.16e-2005 standards for mobile WiMAX and for operation in both the 2.5 GHz and 3.5 GHz bands, the RedMAX 4C will enable carriers to deliver a wide range of fixed, portable and mobile wireless services. As with each of Redline's RedMAX products, the RedMAX 4C will support Voice and Video over IP, broadband Internet access including highly valued education, medical, transportation and municipal communications, VPNs (Virtual Private Networks) and other advanced broadband services.



The RedMAX 4C Mobile WiMAX platform will enable operators to maximize the reach and achieve the customer density required for a profitable carrier business model.

Redline's new WiMAX offering is also designed to facilitate the integration of its existing RedMAX products with its RedMAX 4C technologies, providing operators a path to deploy WiMAX today, introduce 802.16e as required and evolve to technologies that incorporate 802.16m which is the WiMAX industry standard for true mobility.



The RedMAX 4C Mobile WiMAX product family will include the RedMAX 4C base station (SCS1000), indoor and outdoor subscriber units and PCMCIA cards.